



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 07048370 A

(43) Date of publication of application: 21.02.1995

(51) Int. Cl. C07D401/12

A61K 31/44, A61K 31/445, C07D417/12

// A61K 31/425

(C07D401/12, C07D211:26, C07D213:81), (C07D417/12, C07D211:26, C07D285:08)

(21) Application number: 06127373

(22) Date of filing: 09.06.1994

(30) Priority: 25.06.1993 GB 93 9313201

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(54) NEW HETEROCYCLIC COMPOUND

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(57) Abstract:

PURPOSE: To provide a new heterocyclic compound having a strong acetylcholine esterase-inhibiting activity, and useful for preventing and treating central nervous system diseases such as amnesia and dementia.

CONSTITUTION: The objective compound of formula I ( $R^1$  is aryl;  $R^2$  is ar(lower) alkyl; Q is group of formula II or III; A is lower alkylene; the ring NH is a saturated heterocyclic ring containing at least one N), e.g. 3-[2-[1-(4-fluorobenzyl)piperidin-4-yl]ethylcarbamoyl]-5-(4-nitrophenyl)-1,2,4-thiadiazole.fumaric acid salt. The compound of formula I is obtained by reacting a compound of formula:  $R^1$ -Q-COOH with a compound of formula IV in a solvent, if necessary, in the presence of a base under cooling or heating.

